



## Catawba Nuclear Station – License Amendment Request Proposed TS Bases Descriptions for Shared Systems

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## Duke Energy Participants

Art Zaremba (Manager, Nuclear Fleet Licensing)  
Jordan Vaughan (Senior Nuclear Engineer, Fleet Regulatory Affairs)  
Cecil Fletcher (Manager, Catawba Regulatory Affairs)  
Randy Herring (Principal Engineer, Catawba Engineering)  
Aaron Michalski (Nuclear AOM-Work Control, Catawba Operations)

# Outline

- Proposed Change
- Reason for Request
- LAR Technical Content
- LAR Regulatory Content
- Schedule

## Proposed Change

- License Amendment Request (10 CFR 50.90) to revise the Technical Specification (TS) Bases for the following shared systems:
  - Nuclear Service Water System (NSWS)
  - Control Room Area Ventilation System (CRAVS)
  - Control Room Area Chilled Water System (CRACWS)
  - Auxiliary Building Filtered Ventilation Exhaust System (ABFVES)
- Add descriptions for crediting an emergency diesel generator on a unit in MODE 5 or 6 (i.e., shutdown unit) as the emergency power source for operability of the NSWS, CRAVS, CRACWS, ABFVES shared components aligned to the opposite unit in MODE 1, 2, 3 or 4 (i.e., online unit)

## Reason for Request

- Current Engineered Safety Features (ESF) testing alignment for shared systems
  - One shared train is aligned to a shutdown unit and is declared INOPERABLE
  - TS Bases at Catawba specify a normal and emergency power source is needed for operability
- Clarifying the TS Bases will avoid unnecessarily declaring the shared components INOPERABLE
  - The emergency diesel generator on the shutdown unit meets TS 3.8.1 requirements and is available to supply MODE 1-4 shared components
- The proposed change is also desired to eliminate the higher risk associated with TS LCO 3.0.3 type situations and also potential Notice of Enforcement Discretion (NOED) requests

## License Amendment Request – Technical Content

Statement proposed for insertion into the NSW, CRAVS, CRACWS and ABFVES TS Bases:

"Crediting an emergency diesel generator associated with a unit in MODE 5 or 6 as the emergency power source for OPERABILITY of the [NSWS] [CRAVS] [CRACWS] [ABFVES] shared components that are aligned to the other unit that is in MODES 1, 2, 3 or 4, is acceptable, provided the following conditions are met:

- The credited emergency diesel generator associated with the unit in MODE 5 or 6 meets applicable TS 3.8.1 LCO and SR requirements, and
- The credited emergency diesel generator associated with the unit in MODE 5 or 6 meets TS 3.8.3 LCO and SR requirements, and
- Shared 600v Motor Control Centers meet TS 3.8.9 LCO and SR requirements, and
- The credited emergency diesel generator associated with the unit in MODE 5 or 6 meets the requirements of the TS 1.1 definition of OPERABLE/OPERABILITY."

## License Amendment Request – Regulatory Content

- TS Bases change only
- General Design Criterion 5, Sharing of structures, systems and components – no impact
- General Design Criterion 17, Electric power systems – no impact
- General Design Criterion 18, Inspection and testing of electric power systems – no impact
- Continue to meet Safety Guide 6 (i.e., original revision of Regulatory Guide 1.6), Independence Between Redundant Standby (Onsite) Power Sources and Between their Distribution Systems

## Schedule

- Submittal of License Amendment Request pursuant to 10 CFR 50.90 by May 31, 2016
- Requesting approval of the proposed change to the TS Bases prior to implementation
- Requesting Staff approval of the application within one year of the date of submittal



